ABSTRACT OF THE DISCLOSURE

A Parallel Round-Robin Arbiter (PRRA) system and method for arbitrating among N requesters. A plurality of leaf nodes that correspond to the N requesters form a directed ring of a hierarchical decision tree, wherein the leaf nodes are operable to propagate requests from the requesters. Each leaf node is provided with status logic operable to transmit its priority status for resolution of requests by the decision tree. Logic associated with the decision tree's nodes is operable to hierarchically resolve the requests propagated by the leaf nodes, wherein each leaf node is operable to transmit its grant to one of its immediate leaf node neighbors coupled to it via the directed ring for influencing the neighboring leaf node's priority status logic.